



World Resources Company

8113 West Sherman Street Tel: 602.233.9166
Tolleson, AZ 85353-4025 Fax: 623.936.9164

May 22, 2003

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P. O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Thompson:

Enclosed is the appropriate copy of your company's Hazardous Waste Manifest resulting from the transfer of recyclable materials to World Resources Company.

Please note that in accordance with 40 CFR §262.40, this copy of the manifest must be retained as a record for at least three (3) years from the date the waste was accepted by the initial transporter.

If you have any questions, please feel free to give us a call.

Sincerely,
World Resources Company

Manifest Coordinator
Enclosures

WORLD RESOURCES
11:42AM 05/20/2003
GROSS 634 lb
TARE 52 lb
NET 582 lb

WORLD RESOURCES
11:43AM 05/20/2003
GROSS 680 lb
TARE 52 lb
NET 628 lb

WORLD RESOURCES
11:45AM 05/20/2003
GROSS 589 lb
TARE 52 lb
NET 537 lb

WORLD RESOURCES
11:46AM 05/20/2003
GROSS 687 lb
TARE 52 lb
NET 635 lb

WORLD RESOURCES
11:48AM 05/20/2003
GROSS 600 lb
TARE 52 lb
NET 548 lb

WORLD RESOURCES
11:49AM 05/20/2003
GROSS 549 lb
TARE 52 lb
NET 497 lb

WORLD RESOURCES
11:51AM 05/20/2003
GROSS 555 lb
TARE 52 lb
NET 503 lb

WORLD RESOURCES
11:52AM 05/20/2003
GROSS 483 lb
TARE 52 lb
NET 431 lb

WORLD RESOURCES
11:54AM 05/20/2003
GROSS 469 lb
TARE 52 lb
NET 417 lb

WORLD RESOURCES
11:55AM 05/20/2003
GROSS 438 lb

TARE	52 lb
NET	386 lb
WORLD RESOURCES	
11:57AM 05/20/2003	
GROSS	436 lb
TARE	52 lb
NET	384 lb
WORLD RESOURCES	
11:59AM 05/20/2003	
GROSS	339 lb
TARE	52 lb
NET	287 lb
WORLD RESOURCES	
12:00PM 05/20/2003	
GROSS	425 lb
TARE	52 lb
NET	373 lb
WORLD RESOURCES	
12:01PM 05/20/2003	
GROSS	299 lb
TARE	52 lb
NET	247 lb
WORLD RESOURCES	
12:02PM 05/20/2003	
GROSS	357 lb
TARE	52 lb
NET	305 lb
WORLD RESOURCES	
12:03PM 05/20/2003	
GROSS	509 lb
TARE	52 lb
NET	457 lb
WORLD RESOURCES	
12:05PM 05/20/2003	
GROSS	727 lb
TARE	52 lb
NET	675 lb
WORLD RESOURCES	
12:07PM 05/20/2003	
GROSS	798 lb
TARE	52 lb
NET	746 lb
WORLD RESOURCES	
12:08PM 05/20/2003	
GROSS	875 lb
TARE	52 lb
NET	823 lb
WORLD RESOURCES	
12:10PM 05/20/2003	
GROSS	807 lb
TARE	52 lb
NET	755 lb
WORLD RESOURCES	
12:11PM 05/20/2003	
GROSS	830 lb
TARE	52 lb
NET	778 lb
WORLD RESOURCES	
12:14PM 05/20/2003	
GROSS	786 lb
TARE	52 lb
NET	734 lb

WORLD RESOURCES
12:15PM 05/20/2003
GROSS 803 lb
TARE 52 lb
NET 751 lb
WORLD RESOURCES
12:17PM 05/20/2003
GROSS 840 lb
TARE 52 lb
NET 788 lb
WORLD RESOURCES
12:18PM 05/20/2003
GROSS 829 lb
TARE 52 lb
NET 777 lb
WORLD RESOURCES
12:19PM 05/20/2003
GROSS 786 lb
TARE 52 lb
NET 734 lb
WORLD RESOURCES
12:20PM 05/20/2003
GROSS 761 lb
TARE 52 lb
NET 709 lb
WORLD RESOURCES
12:22PM 05/20/2003
GROSS 794 lb
TARE 52 lb
NET 742 lb
WORLD RESOURCES
12:24PM 05/20/2003
GROSS 910 lb
TARE 52 lb
NET 858 lb
WORLD RESOURCES
12:26PM 05/20/2003
GROSS 913 lb
TARE 52 lb
NET 861 lb
WORLD RESOURCES
12:27PM 05/20/2003
GROSS 857 lb
TARE 52 lb
NET 805 lb
WORLD RESOURCES
12:29PM 05/20/2003
GROSS 832 lb
TARE 52 lb
NET 780 lb
WORLD RESOURCES
12:31PM 05/20/2003
GROSS 742 lb
TARE 52 lb
NET 690 lb
ACCUM 20224 lb
05/20/2003 12:31PM

10.11
Tons

WORLD RESOURCES
11:35AM 05/20/2003
GROSS 1361 lb
TARE 77 lb
NET 1284 lb

WORLD RESOURCES
11:36AM 05/20/2003
GROSS 1411 lb
TARE 77 lb
NET 1334 lb

WORLD RESOURCES
11:38AM 05/20/2003
GROSS 1009 lb
TARE 77 lb
NET 932 lb

ACCUM 3550 lb
05/20/2003 11:38AM

1.78

Tons

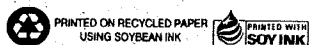
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6		Manifest Document No. 03002		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124						A. State Manifest Document Number			
4. Generator's Phone (206) 382-8379						B. State Generator's ID			
5. Transporter 1 Company Name Philip Thomas Pontagutta 9 Remediation				6. US EPA ID Number W A D 063547996		C. State Transporter's ID			
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 800-321-1000			
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85353-4025						10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0		E. State Transporter's ID	
								F. Transporter's Phone	
								G. State Facility's ID	
								H. Facility's Phone 800-972-1955	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity	
						No. Type		14. Unit Wt/Vol	
a. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III						003 C F		0379.3 P	
b. <input type="checkbox"/> RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III						033 D M		231.80 P	
c. <input type="checkbox"/>									
d. <input type="checkbox"/>									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") (Emergency call pager # 206-648-8423) Wear gloves & goggles P.O. # M 90839									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Gerald A. Thompson					Signature 			Month Day Year 10/5/14/03	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Don Merchant					Signature 			Month Day Year 10/5/14/03	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name SAMUEL BELLAMY					Signature 			Month Day Year 10/5/14/03	



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6 0 3 0 0 2		Manifest Document No. 03002		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
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4. Generator's Phone (206) 382-8379						B. State Generator's ID							
5. Transporter 1 Company Name			6. US EPA ID Number			C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone							
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85353-4025			10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0			E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone 800-972-1955							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. RM, Hazardous waste, solid, n.o.s., (F008), 9, NA3077, III						003 CF		43713		P		F008	
b. RM, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III						033 DM		23180		P		D007	
c.													
d.													
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Printed/Typed Name GERARD A. Thompson						Signature <i>[Signature]</i>						Month Day Year 05/1/90	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Don McKittrick						Signature <i>[Signature]</i>						Month Day Year 05/1/90	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
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Printed/Typed Name						Signature						Month Day Year	



Style CF 17 **LABELMASTER**® (800) 621-5808 www.labelmaster.com

FILE COPY OR STATE COPY

AKC-0017045

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn, but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

EMERGENCY RESPONSE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam.

Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

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PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

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FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Material Safety Data Sheet

D007 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:
World Resources Company
8113 West Sherman Street
Tolleson, Arizona 85353-4025
Tel.: 602/233-9166 Fax: 623/936-9164

January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: **CHEMTREC 800/424-9300**.

(Use CHEMTREC Company Code "WORR".) For calls from other countries, call COLLECT: 703/527-3887.

Section 1

Material Identification

EPA Waste Classification: D007

Generic Name: Chromium-Bearing Filter Cake

Chemical Family: Metallic (Hydroxide) Participates

Synonym: Nonferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (D007)

DOT Hazard Class: 9; Packing Group: III.

DOT Identification Number: NA 3077

Guide 171 of *The North American Emergency Response Guidebook* applies.

Section 2

Hazardous Ingredients

Ingredient:	CAS Number:	Content%:	ACGIH-TLV:	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0-30	1.0 mg(Cu)/m ³ (dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg(Ni)/m ³ (dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg(Ca)/m ³ (dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0-10	10.0 mg/m ³ (dust)	LD-50 not determined
Chromic Hydroxide	1308-58-1	1-20	0.05 mg(Cr)/m ³ (dust)	LD-50 not determined

Section 3

Physical and Reactivity Data

Description: solid, clay-like, gray/green to brown, water content 30-80%

Specific Gravity: 2.5 to 3.5

Solubility: insoluble in water.

Incompatible Reactivity: none known.

Vapor Pressure: insignificant.

Stability: avoid contact with acids.

Polymerization: will not occur.

Density: 50-90 lbs./cu ft.

Boiling Point: above 2600°C

Melting Point: above 1800°C

pH: 7.0 to 10.0

Odor: nil.

Section 4

Fire and Explosion Data

Flashpoint: nonflammable.

Special Firefighting Procedures: none.

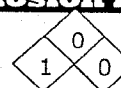
Product Decomposition (due to fire or explosion): none.

Oxidation: non-oxidizing.

Explosion Potential: non-explosive.

NFPA

Fire Diamond



Section 5

Toxicity

Listed Carcinogenic Components: nickel, chromium

Toxicology: see Section 2.

Route of Entry: inhalation and ingestion.

Section 6

Health Effects and First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
Ingestion: Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person.
Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.
Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.
Long-Term: Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.
Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage, mental-sensitive skin, or skin lesions.

Section 7

Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves.
Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow.
Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to World Resources Company at the address shown above.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended.
Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached Manifest Number:

03002



↑Signature↑

05-14-03

↑Date↑

Alaskan Copper Works
P.O. Box 3546, Seattle, WA 98124

↑Company Name and Address↑

206-382-8379

↑Telephone↑

**WORLD RESOURCES COMPANY**

ARIZONA RECYCLING FACILITY

*In partnership with the environment***LDRN****LAND DISPOSAL RESTRICTION
NOTICE**

ISO 14001 Certified Recycling Facility

D007

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To: **WORLD RESOURCES COMPANY** **8113 West Sherman Street, Tolleson AZ 85353-4025**

From: **COMPANY NAME:** **COMPANY ADDRESS:**
Alaskan Copper Works **P.O. Box 3546, Seattle, WA 98124**

**MANIFEST
NUMBER:****03002****DATE OF
SHIPMENT:****05-14-03**

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	non-wastewater	40 CFR §268.40

SIGNATURE:**TITLE:****Environmental Spec.****NAME PRINTED:****GERARD A. Thompson****DATE:****05-14-03****Instructions****for the Completion of this
Land Disposal Restriction Notice
(D007 LDRN)**

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

D007 GENERATORS



F006

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To:	WORLD RESOURCES COMPANY	8113 West Sherman Street, Tolleson AZ 85353-4025
From:	COMPANY NAME: Alaskan Copper Works	COMPANY ADDRESS: P.O. Box 3546, Seattle, WA 98124
MANIFEST NUMBER:	03002	DATE OF SHIPMENT: 05-14-03

✓ This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

SIGNATURE:		TITLE: Environmental Spec.
NAME PRINTED:	GERALD A. Thompson	DATE: 05-14-03

Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN *includes* the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does *not* include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then *no additional entry* is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) *must* be added to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

F006 GENERATORS

Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

World Resources Company

8113 West Sherman Street

Tolleson, Arizona 85353-4025

Tel.: 602/233-9166

Fax: 623/936-9164

January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: CHEMTREC 800/424-9300.

(Use CHEMTREC Company Code "WORR".)
For calls from other countries, call COLLECT: 703/527-3887.

Section 1

EPA Waste Classification: F006

Generic Name: Electroplating/Metal-Finishing Waste-water Treatment Sludge

Chemical Family: Metallic (Hydroxide) Participates

Synonym: Nonferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (F006)

DOT Hazard Class: 9; Packing Group: III.

DOT Identification Number: NA 3077

Guide 171 of The North American Emergency Response Guidebook applies.

Material Identification

Section 2

Ingredient:	CAS Number:	Content%:	ACGIH-TLV:	Hazardous Ingredients
Copper Hydroxide	20427-59-2	0-30	1.0 mg(Cu)/m ³ (dust)	Toxicology (rat, oral): LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg(Ni)/m ³ (dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg(Ca)/m ³ (dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0-10	10.0 mg/m ³ (dust)	LD-50 not determined
Aluminum Hydroxide	21645-51-2	0-10	2.0 mg(Al)/m ³ (dust)	LD-50 not determined

Section 3

Description: solid, clay-like, gray/green to brown, water content 30-80%

Specific Gravity: 2.5 to 3.5

Solubility: insoluble in water.

Incompatible Reactivity: none known.

Vapor Pressure: insignificant.

Stability: avoid contact with acids.

Polymerization: will not occur.

Density: 50-90 lbs./cu ft.

Physical and Reactivity Data

Boiling Point: above 2600°C

Melting Point: above 1800°C

pH: 7.0 to 10.0

Odor: nil.

Section 4

Flashpoint: nonflammable.

Special Firefighting Procedures: none.

Product Decomposition (due to fire or explosion): none.

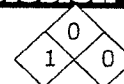
Oxidation: non-oxidizing.

Explosion Potential: non-explosive.

Fire and Explosion Data

NFPA

Fire Diamond



Section 5

Listed Carcinogenic Components: nickel Toxicology: see Section 2. Route of Entry: inhalation and ingestion.

Toxicity

Section 6

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
Ingestion: Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person.
Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.
Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.
Long-Term: Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.
Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage, mental-sensitive skin, or skin lesions.

Health Effects and First Aid

Section 7

Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves.
Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow.
Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to World Resources Company at the address shown above.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended.

Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached Manifest Number:

03002


↑ Signature ↑

05-14-03
↑ Date ↑

Alaskan Copper Works

P.O. Box 3546, Seattle, WA 98124

↑ Company Name and Address ↑

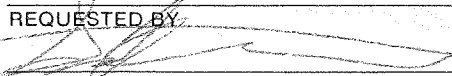
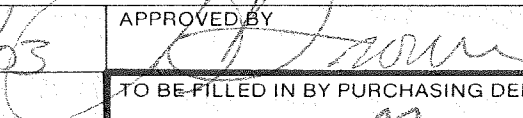
206-382-8379

↑ Telephone ↑




GENERAL INTERNAL
PURCHASE REQUISITION

ITEM NO.	ACCT NO.	QUAN-TITY	UNIT	DESCRIPTION & PART NUMBERS	UNIT PRICE	TOTAL LINE ITEM PRICE
1	6-686	1	LOT	Recycle & Transport 23,180 lbs of D007 Sludge (T)	395 ⁰⁰	
2	6-686	1	LOT	Recycle & Transport 3,793 lbs of F006 Sludge (T)	650 ⁰⁰	

REQUESTED BY 	DATE 5/13/03	APPROVED BY 	DATE
<input type="checkbox"/> HERE FOR RETURN OF YELLOW COPY		TO BE FILLED IN BY PURCHASING DEPT.	
PURPOSE OR USE		P.O. NUMBER M90839	
DELIVERY NEEDED BY		VENDOR World Resources	
SHIP TO ADDRESS		CONTACT	TELEPHONE NO.
SUGGESTED VENDOR World Resources		DELIVERY PROMISED	SHIP VIA VT



REQUESTED BY 	DATE 5/13/03	APPROVED BY 	DATE
<input type="checkbox"/> HERE FOR RETURN OF YELLOW COPY PURPOSE OR USE		TO BE FILLED IN BY PURCHASING DEPT. P.O. NUMBER M90839	
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SUGGESTED VENDOR world Resources		DELIVERY PROMISED	SHIP VIA VT